



MANUFACTURING QUALITY LAWN CARE EQUIPMENT SINCE 1945

350LB ATV SPREADER

**Owner's
Manual**

SP-350



**IMPORTANT Read
and follow all
Safety Precautions
and Instructions
Before Operating
this Equipment.**



Made In CHINA

1602 CORPORATE DRIVE , PO BOX 67, WARRENSBURG, MISSOURI 64093
PH 660. 747. 8183 FAX 660. 747. 8650
www.swisherinc.com

LIMITED WARRANTY

The manufacturer's warranty to the original consumer purchaser is: This product is free from defects in materials and workmanship for a period of One (1) year from the date of purchase by the original consumer purchaser. We will repair or replace, at our discretion, parts found to be defective due to materials or workmanship. This warranty is subject to the following limitations and exclusions:

- 1) Commercial Use** This product is not intended for commercial use and carries no commercial warranty.
- 2) Limitation** This warranty applies only to products which have been properly assembled, adjusted, and operated in accordance with the instructions contained within this manual. This warranty does not apply to any product of Swisher Mower Co., Inc., that has been subject to alteration, misuse, abuse, improper assembly or installation, shipping damage, or to normal wear of the product.
- 3) Exclusions** Excluded from this warranty are normal wear, normal adjustments, and normal maintenance.

In the event you have a claim under this warranty, you must return the product to an authorized service dealer. All transportation charges, damage, or loss incurred during transportation of parts submitted for replacement or repair under this warranty shall be borne by the purchaser. Should you have any questions concerning this warranty, please contact us toll-free at 1-800-222-8183. The model number, serial number, date of purchase, and the name of the authorized Swisher dealer from whom you purchased the mower will be needed before any warranty claim can be processed.

THIS WARRANTY DOES NOT APPLY TO ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FALL EXPRESSED WARRANTIES. Some states do not allow the limitation of consequential damages or limitations on how long an implied warranty may last, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from state-to-state. This is a limited warranty as defined by the Magnuson-Moss Act of 1975.

Assembly Instructions

STORAGE SAFETY

Store the unit in an area away from human activity.

Do not permit children to play on or around the stored machine.

Wash thoroughly with a strong detergent to remove all chemical residue before storage.

Operating Hints:

Be sure you know the application rate for your machine and material. Calibrate in the field to be sure. Over application can waste material or damage crops. Under application may not give the desired results. This is particularly true when working with chemicals.

Wear appropriate protective clothing whenever working with chemicals. Even small amounts of a toxic chemical can affect you, animals, plants, or the environment. Follow instructions exactly.

Stay 100 feet away from people, animals, and building. Stop spreading if anyone comes closer to prevent injury. Particles from the spinner can injure the eye.

Do not travel faster than the ground or terrain conditions will safely allow.

Do not allow riders. Riders can fall off and be injured.

Wear protective clothing and eye wear appropriate for the chemical being used.

Keep hands, feet, hair, and clothing away from moving parts.

Place all controls in neutral, stop tractor engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing, or unplugging.

Place all tractor and machine controls in neutral before starting.

Never start or operate machine unless sitting on tractor seat.

Clear the area of bystanders, especially small children, before starting.

Use hazard flashers on tractor when transporting unless prohibited by law.

Review safety instructions with all operators annually.

OPERATING SAFETY

All things with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes potential hazards and follows reasonable safety practices. The manufacturer has designed this Broadcast Spreader to be used with all its safety equipment properly attached to minimize the chance of accidents. Study this manual to make sure you have all safety equipment attached.

If a safety shield or guard is removed for any reason, it must be replaced before the machine is again operated. When the use of hand tools is required to perform any part of assembly, installation, adjustment, maintaining, repairing, removal, or moving, be sure the tools used are designed and recommended by the tool manufacturer for the specific task.

Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal, or moving. Do not allow long hair, loose fitting clothing, or jewelry to be around moving parts. Always use two people to handle heavy, unwieldy components during assembly, installation, removal or moving.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintaining, repairing, removal or moving.

Never place yourself between the tractor and machine while implement is in operation.

Do not walk or work under a raised machine or attachments unless it is securely blocked or held in position. Do not depend on the tractor hydraulic system to hold the machine or attachment in place.

OPERATING SAFETY (Cont.)

A heavy load can cause instability of the tractor. Use extreme care during travel. Slow down on turns and watch out for bumps. The towing vehicle may need front counterweights to counterbalance the weight of the machine.

Never use alcoholic beverages, drugs or prescription medications which can hinder alertness or coordination while operating this machine.

Do not allow riders on the machine or towing vehicle at any time. There is no safe place for any riders.

Before you operate the machine, check over all pins, bolts, and connections to be sure all are securely in place. Replace any damaged or worn parts immediately.

Do not allow anyone who is not familiar with the safety rules and operation instructions to use this machine.

Never allow children to operate or be around this machine.

Use stabilizer bars, adjustable sway chains, or sway blocks on the tractor lift arms to keep the machine from swinging side to side. Adjust as tightly as practical for best performance.

Clear the work area of objects which might be picked up and snagged or entangled in the machine. Keep hands, feet, hair, jewelry, and clothing away from all moving and/or rotating parts.

OPERATING INSTRUCTIONS

Please Read Instructions Carefully!

1. Right-hand or left-hand reference is determined by standing at the rear of the seeder/spreader and facing in the direction of travel of the tractor.
2. Check the register of the control lever with the material gate (the opening in the bottom of hopper). With the material gate closed, the control lever should be in its fully raised position. Control lever settings listed on the spreader charts are with the adjustable pointer/stop installed below the control lever.
3. DO NOT FILL HOPPER (especially with fertilizer) and transport over long distance, as it may result in packing, causing poor or erratic discharge.
4. FOR BEST RESULTS use palletized fertilizer, as it has little tendency to lump and causes little or no dust.
5. Be sure to sift or break up lumps found in some types of granular fertilizer before filling hopper.
6. Do not use on windy days, especially when spreading fine grass seed.
7. Be extremely careful if you are spreading herbicides, as there is the possibility of wind of drift or overthrow into areas where serious crop/shrub damage could occur. Always follow instructions on chemical package.
8. Adjust the tension on the control lever so it moves with some resistance, but will remain where you set it. Adjust the adjustable pointer stop so that at the end of the field you can shut the seed gate and, after your turn, re-open to your exact setting.
9. If, by chance, the agitator does become jammed, open the feed gate all the way. By sticking a small rod through the feed gate, the material jamming the agitator can be loosened and removed. After the jam is cleared, reset the feed gate and proceed.

SPREADING INSTRUCTIONS

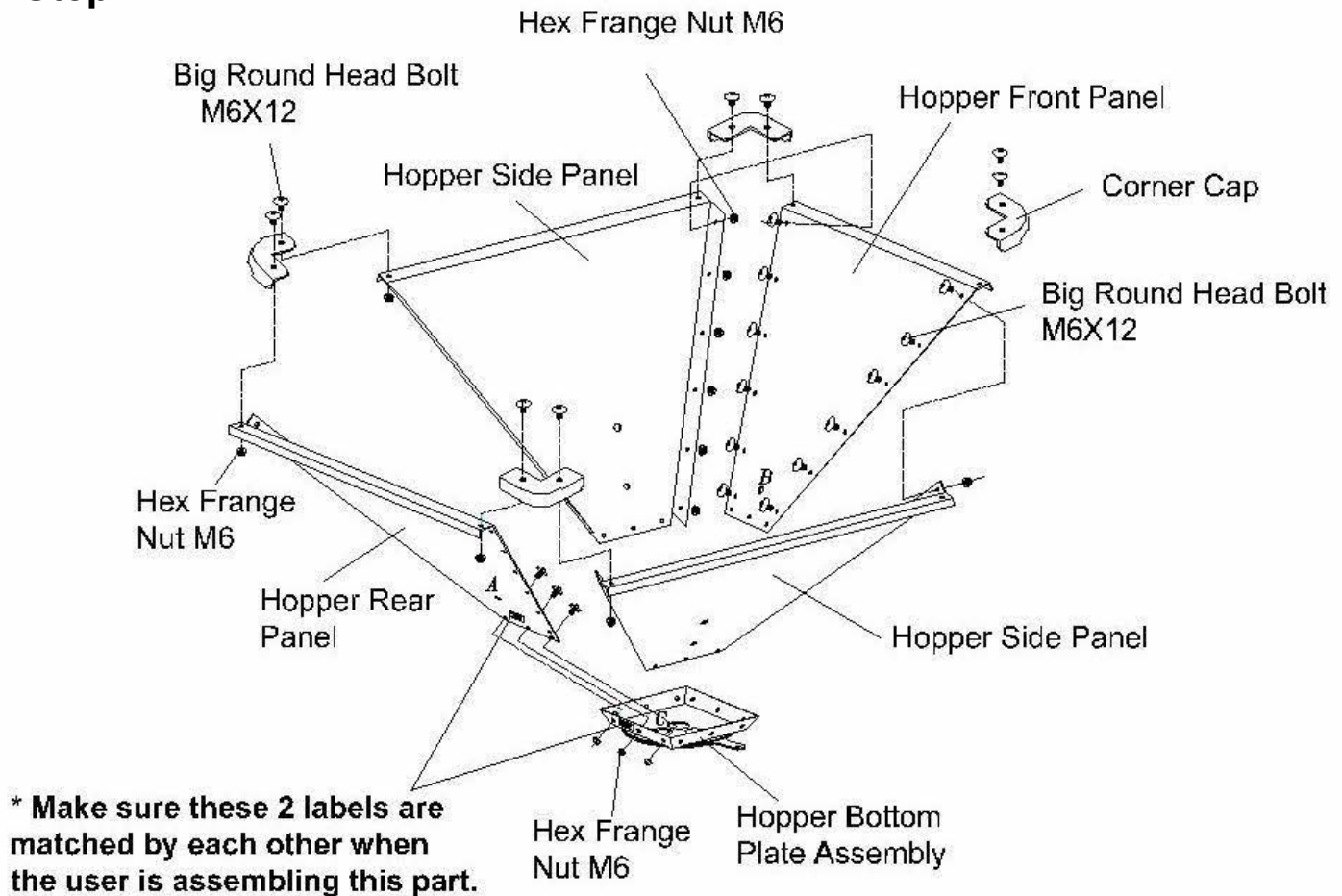
1. The opening in the hopper bottom is regulated by the control lever. The size of the opening is determined by the calibrated scale. Place the control lever at the desired setting.
2. The spread chart in this manual is an approximate guide based on various forward speeds. For accurate spreading, calibrate your tractor to operate at the desired speed.
3. Check rate chart for suggested setting for material type to be spread.
4. You are now ready to make a trial run to assure accurate results. Close the feed gates and put in a pre-determined amount of the material to be spread. Spread this and check the results. Make final adjustments to obtain desired results.

MAINTENANCE

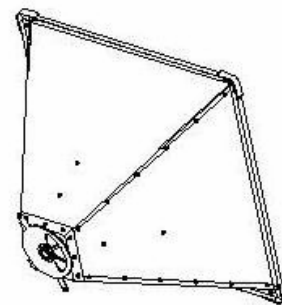
1. The hopper should be washed after use, especially after use with corrosive material such as fertilizer, salt or ice melting compounds. When dry, oil thoroughly.
2. The gearbox is filled with lubricant and sealed at the factory. If operated and stored properly, the gearbox will provide a long, trouble-free service life. If disassembly of the gearbox should ever be required, it is important that the box be re-filled with a good quality grease and that the box halves are resealed with a silicone adhesive.
3. Always store seeder/spreader in a clean, dry place.
4. Before using, check to make sure all nuts and bolts are tight.
5. Paint any bare metal or rusty spots for longer life.

350lb SPREADER ASSEMBLY INSTRUCTION

Step 1

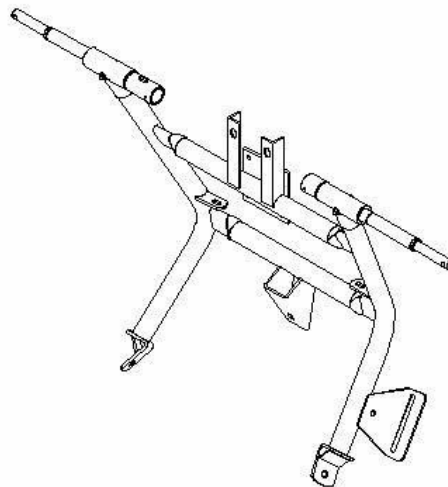
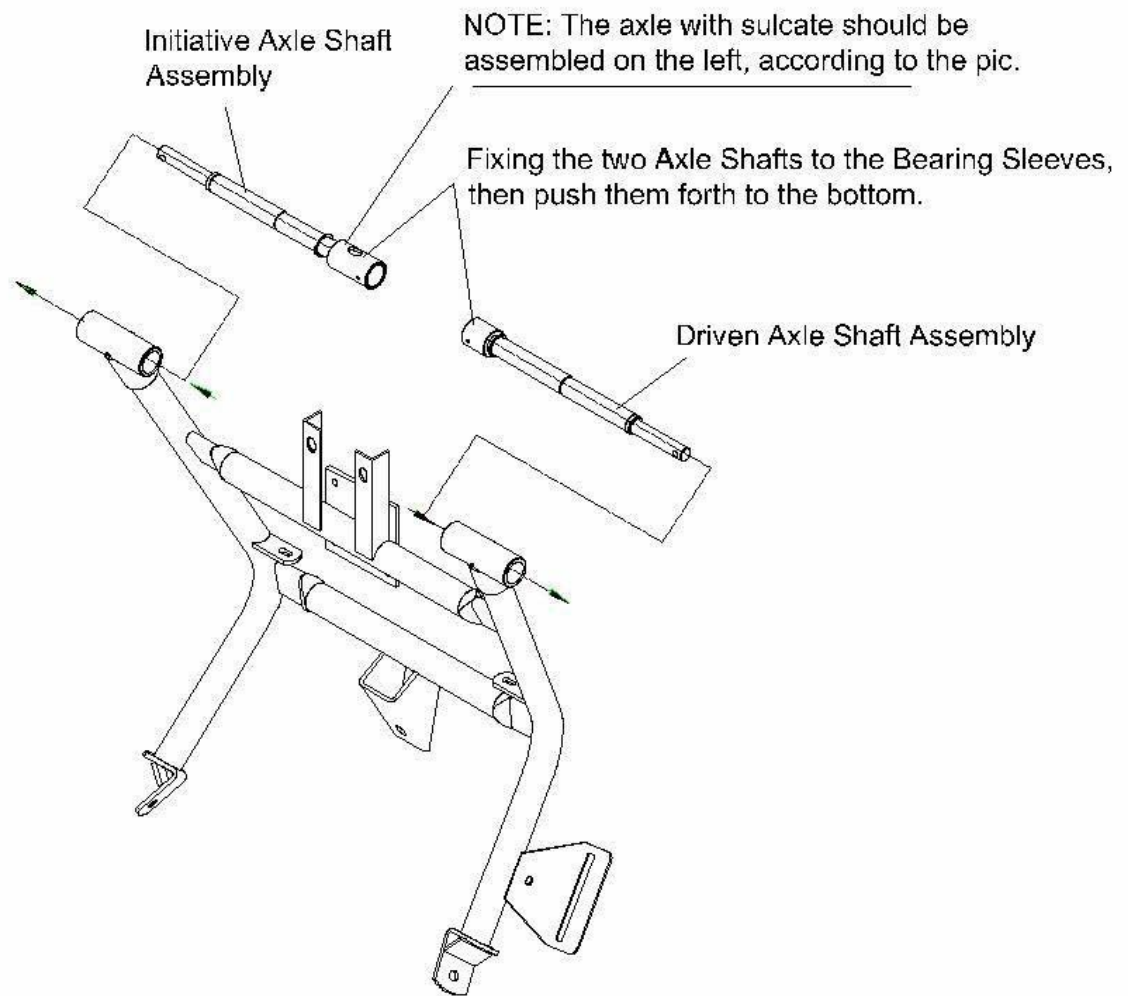


Note: Round head of bolts should be inside of the hopper and the nuts should be to the outside of the hopper.



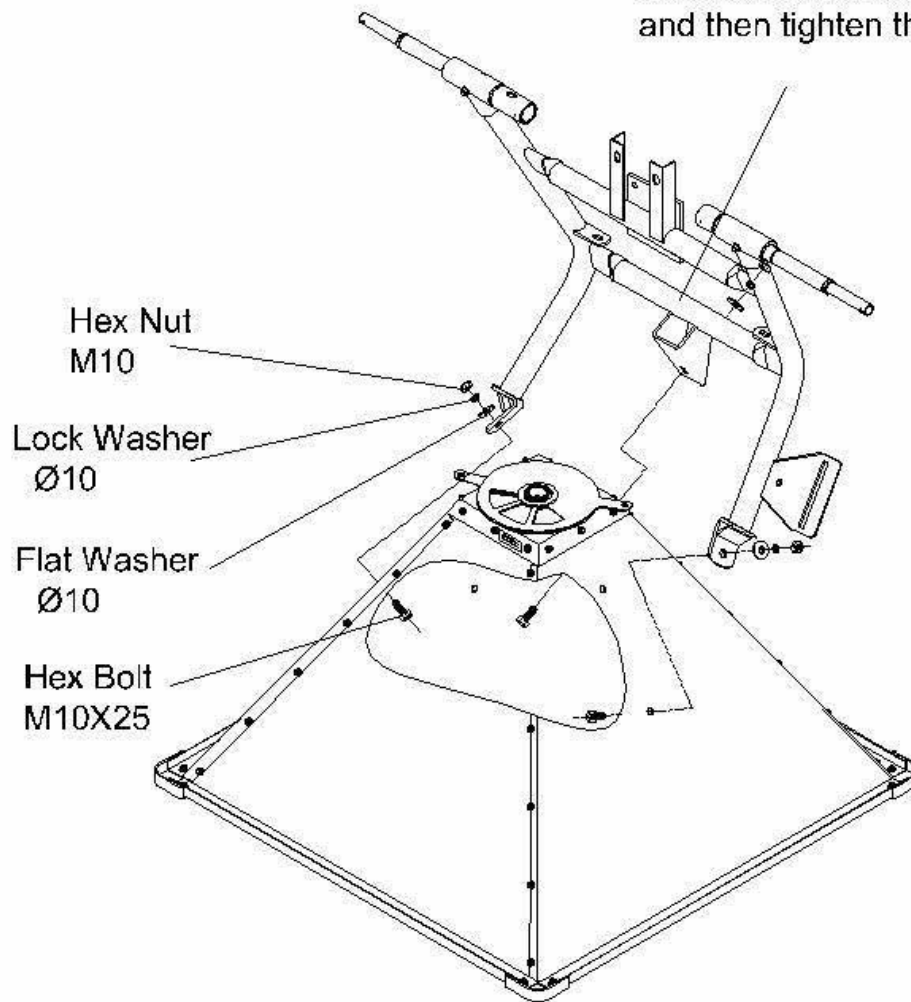
1. Assemble the 4 panels with bolts and nuts according to the drawing.
2. Assemble the Hopper Bottom Plate with bolts and nuts according to the drawing.
3. Assemble the 4 Corner Caps with bolts and nuts, then tighten all the bolts and nuts.
4. After assembling the hopper, turn the hopper so that the opening is down for the next assembly steps.

Step 2

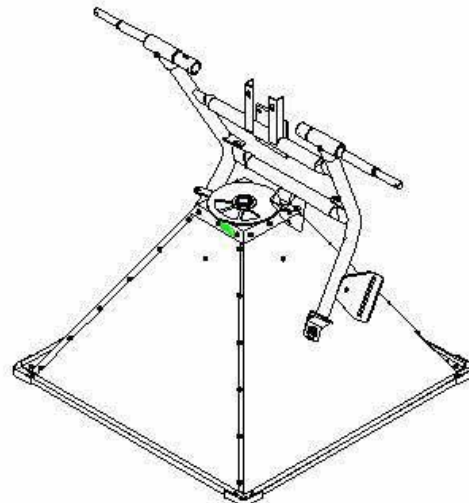


Step 3

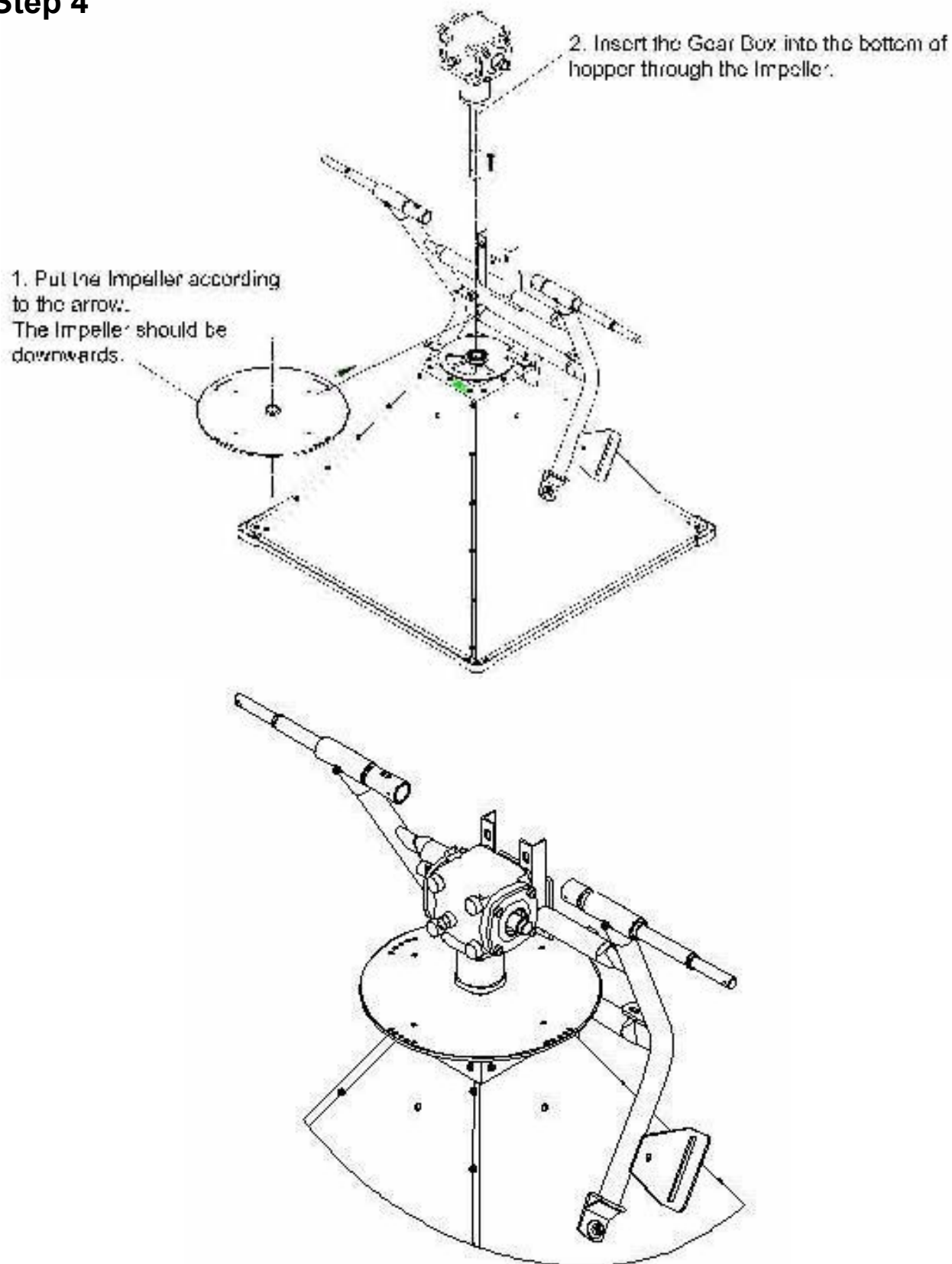
Connecting the Frame to the Hopper with the Bolts showed in the picture, and then tighten them.



When assembly, please have the hopper side lay, the hopper panel with label should be put in downwards.

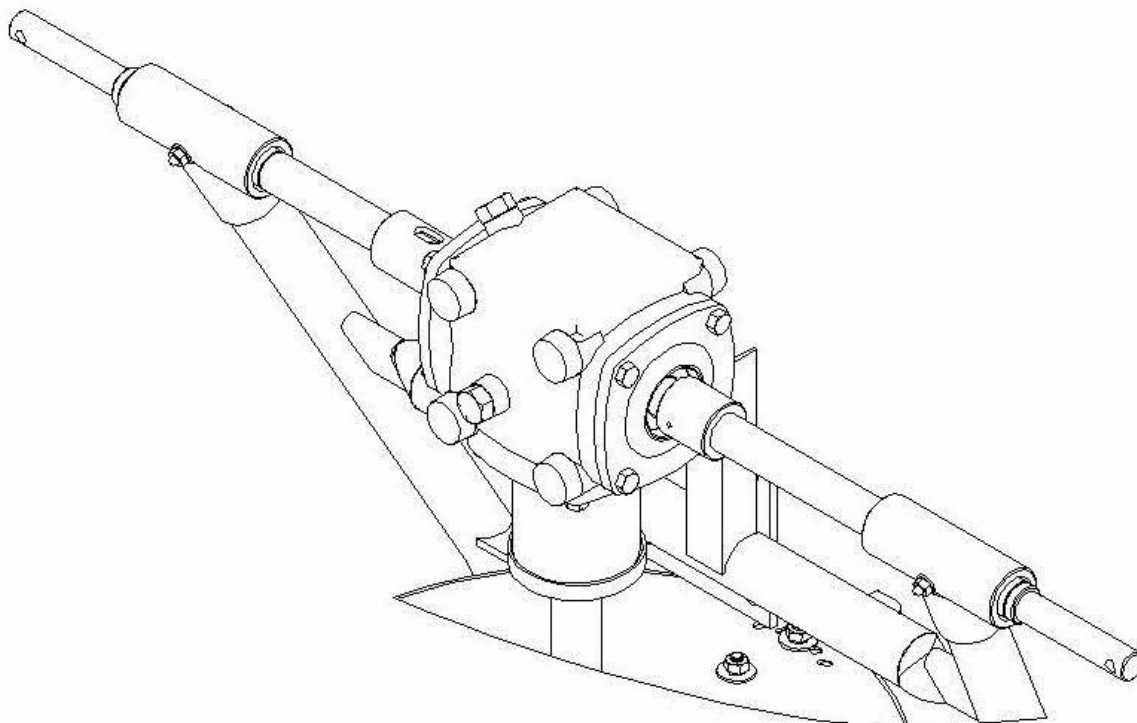
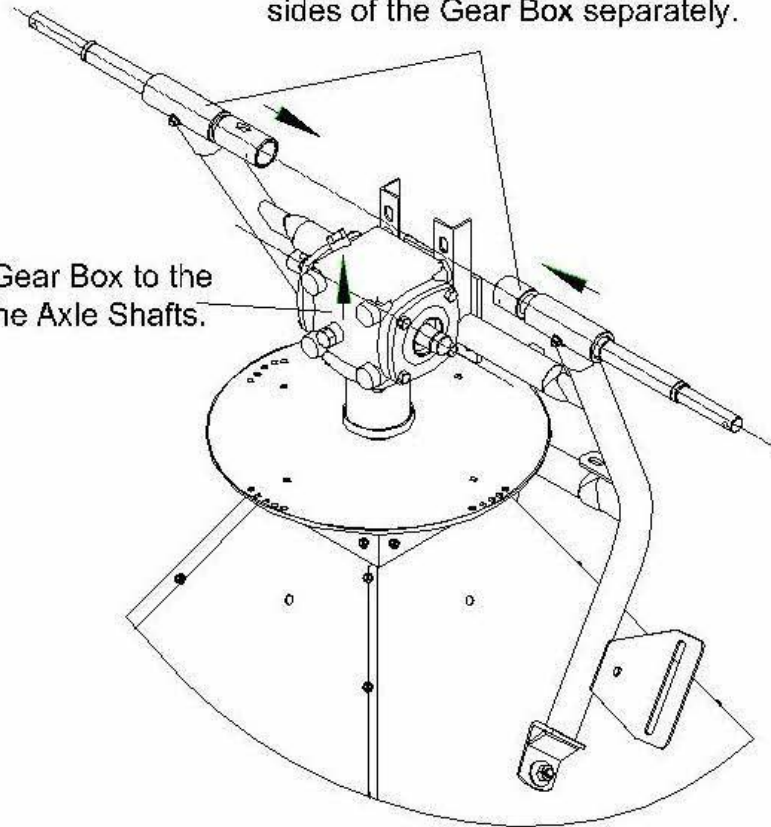


Step 4



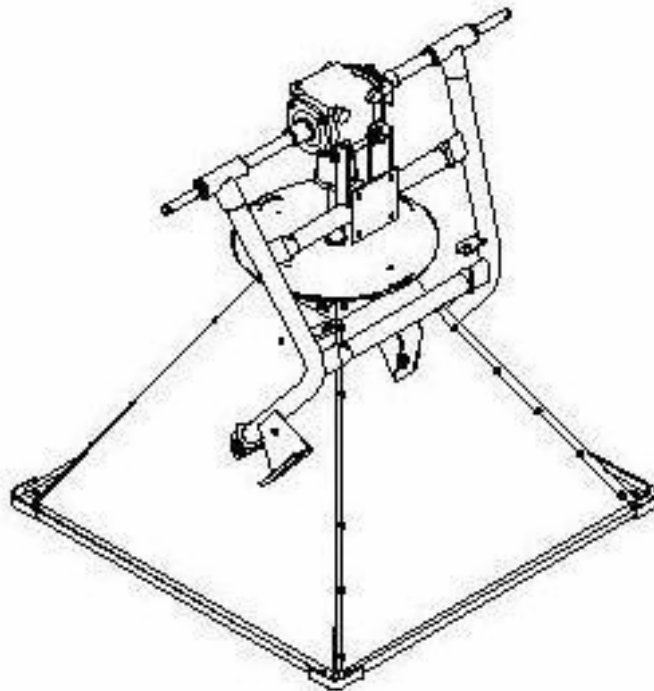
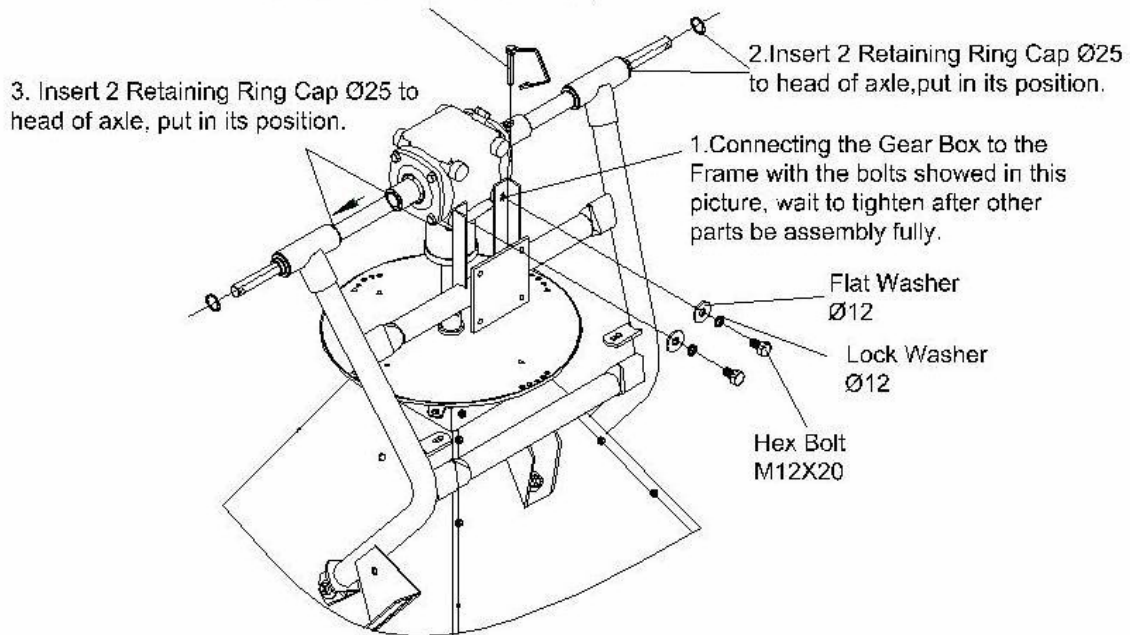
Step 5

2. Insert the Axle Shafts to the two sides of the Gear Box separately.
1. Lift up the Gear Box to the parallel with the Axle Shafts.



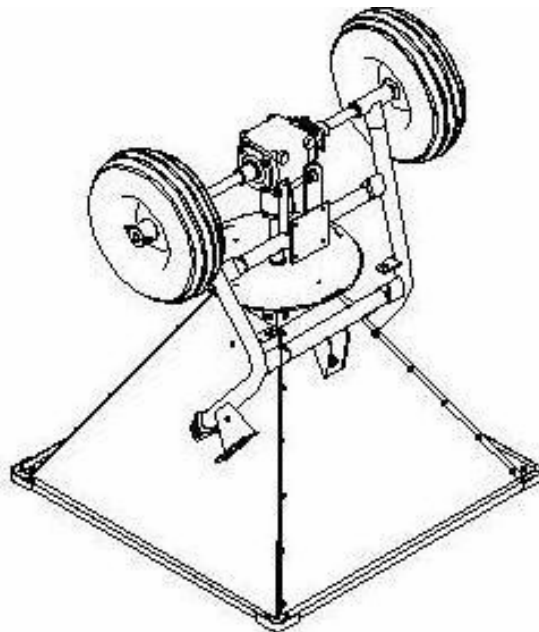
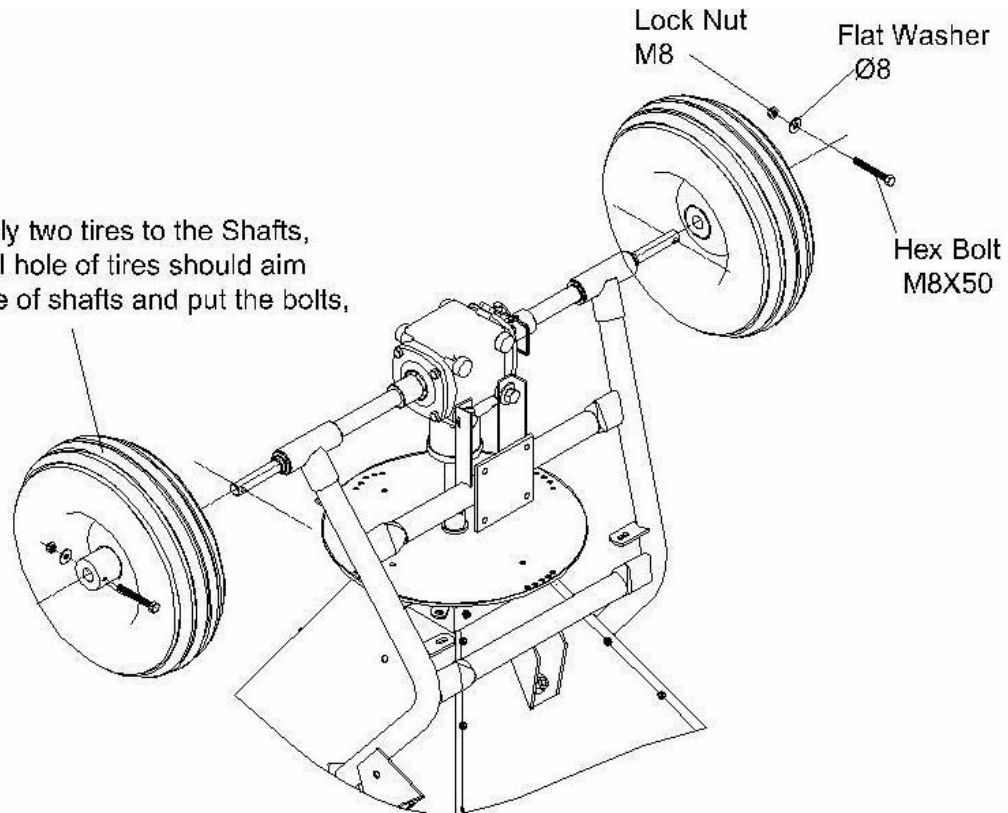
Step 6

Let the Gear Box hole and Axle Shaft Hole in the same level, then insert the Safety Pin.
(This pin could be took off when it not work so that could lessen the abrasion)

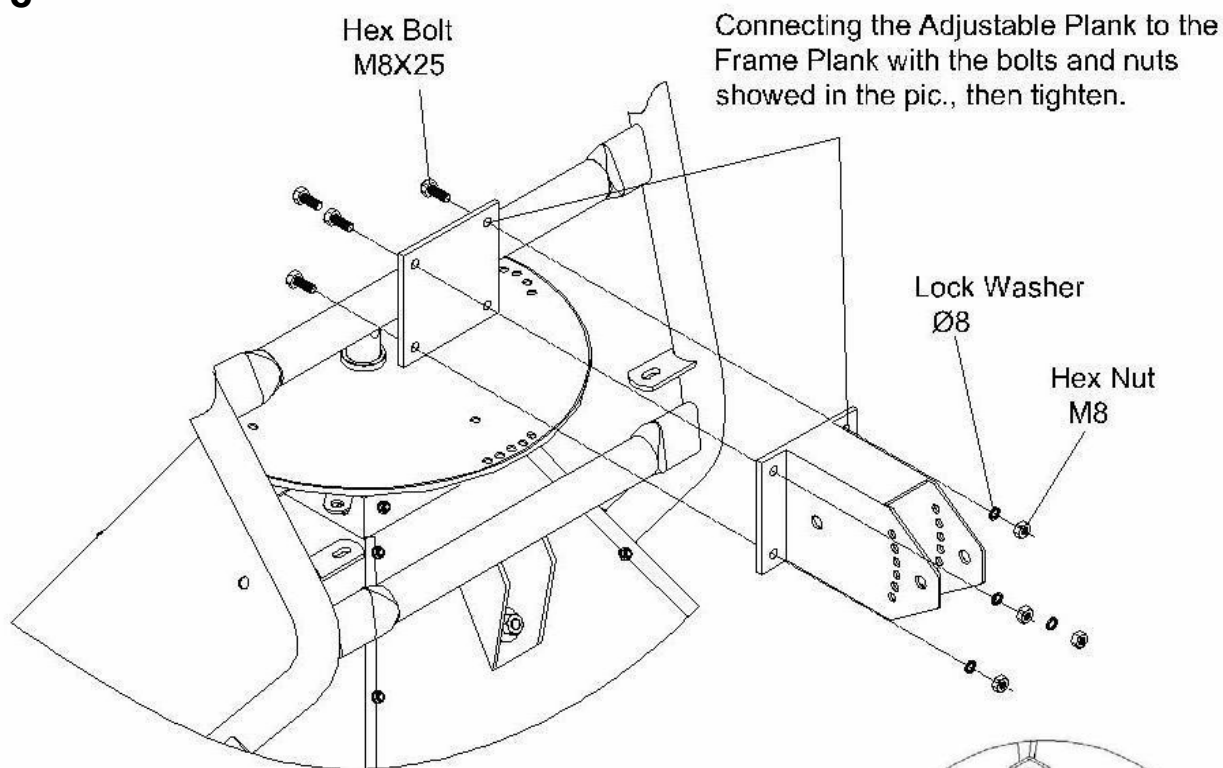


Step 7

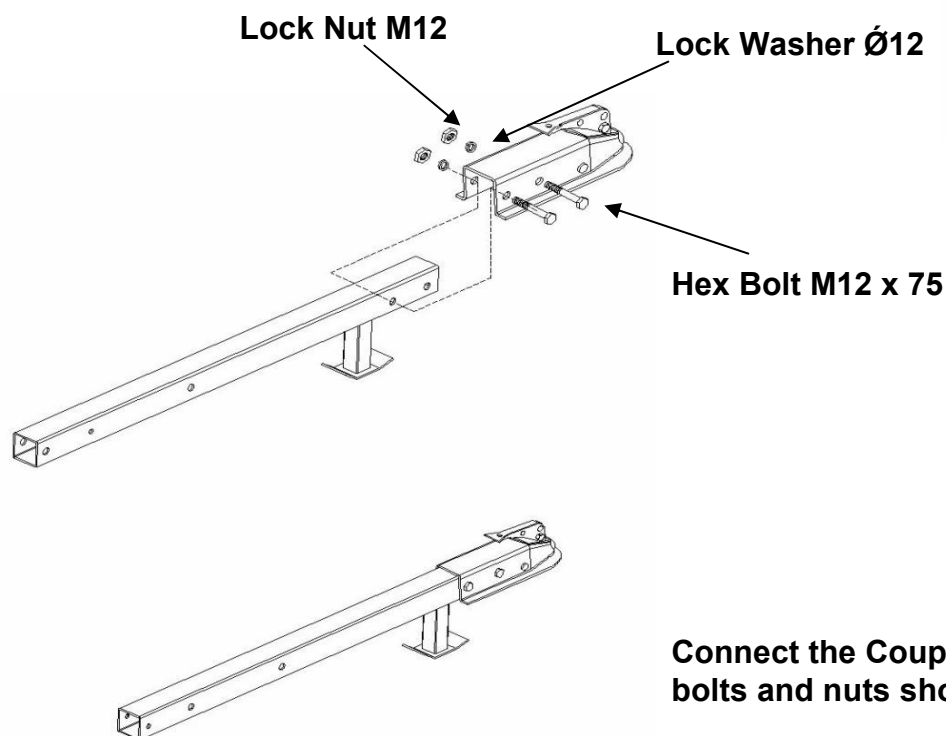
1. Assembly two tires to the Shafts, then small hole of tires should aim at the hole of shafts and put the bolts, tighten.



Step 8

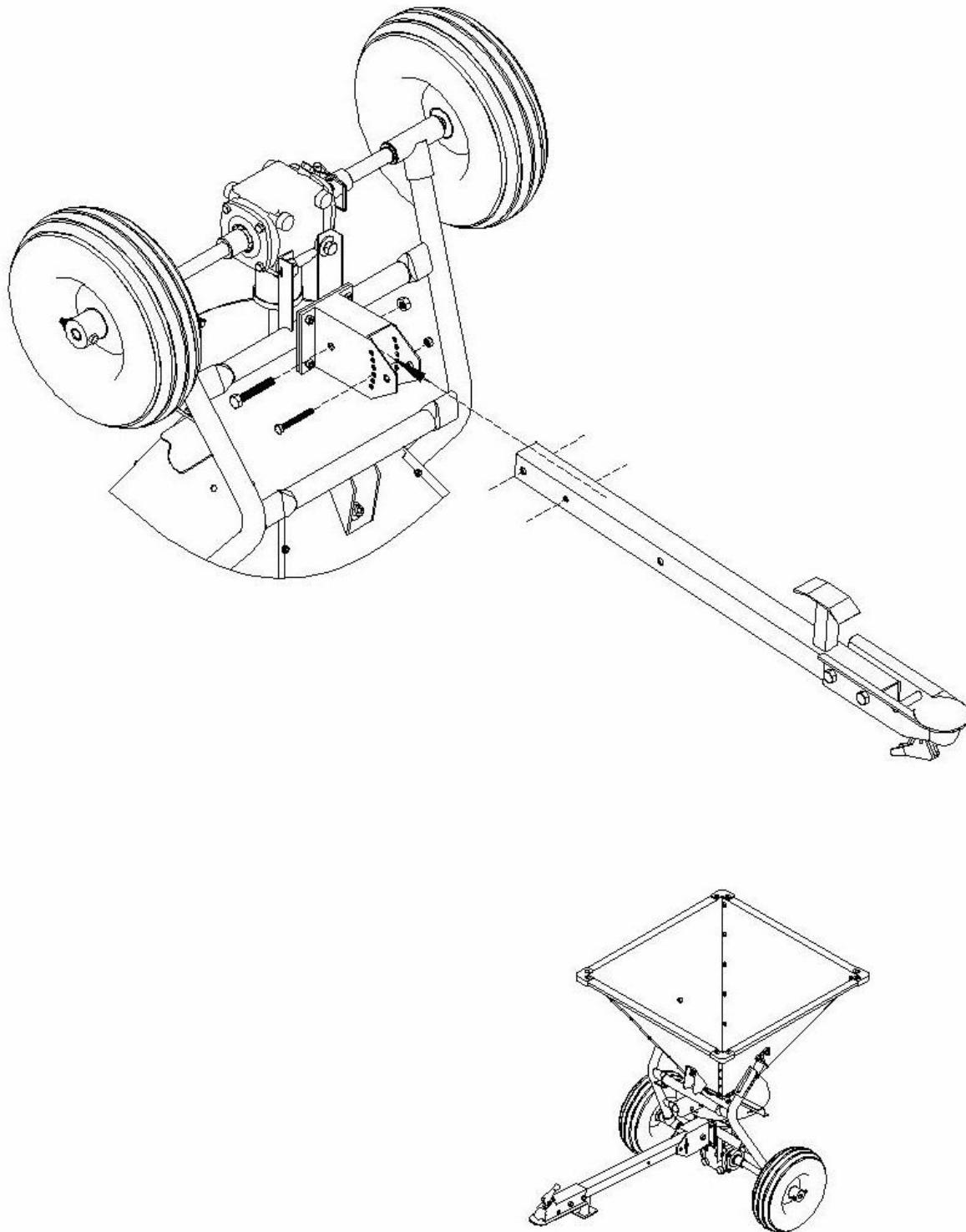


Step 9

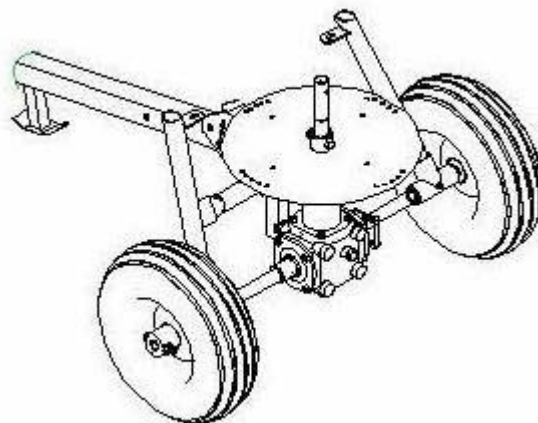
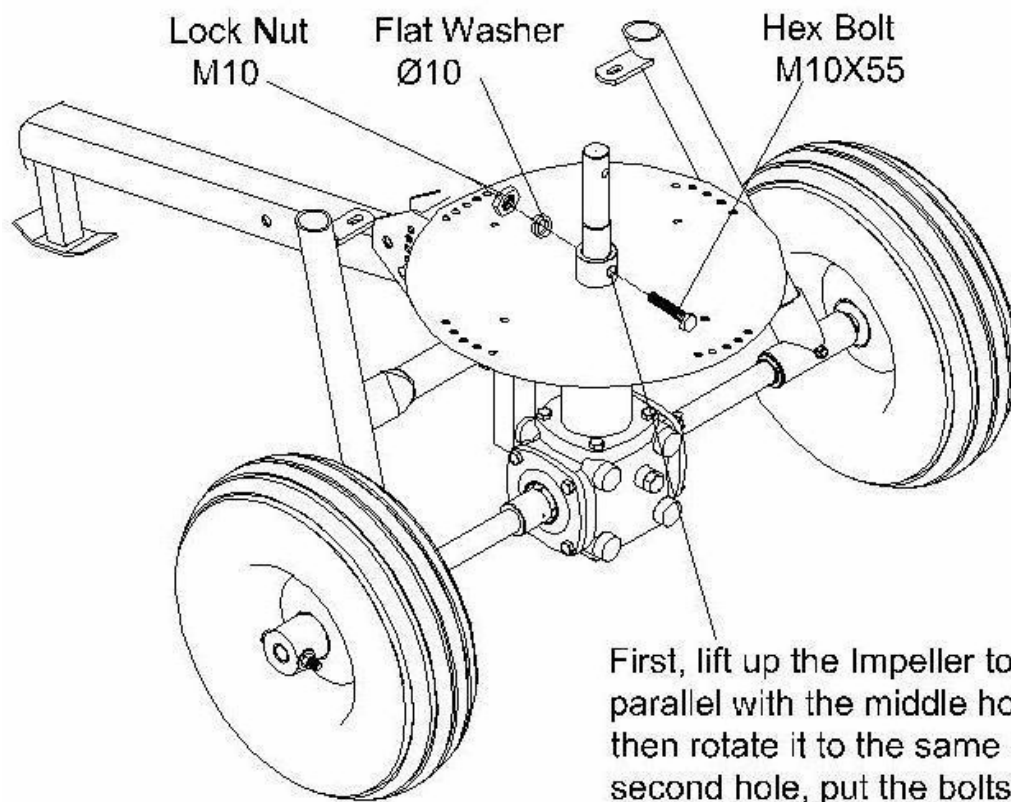


Connect the Coupler to the tow bar with the bolts and nuts shown in this picture.

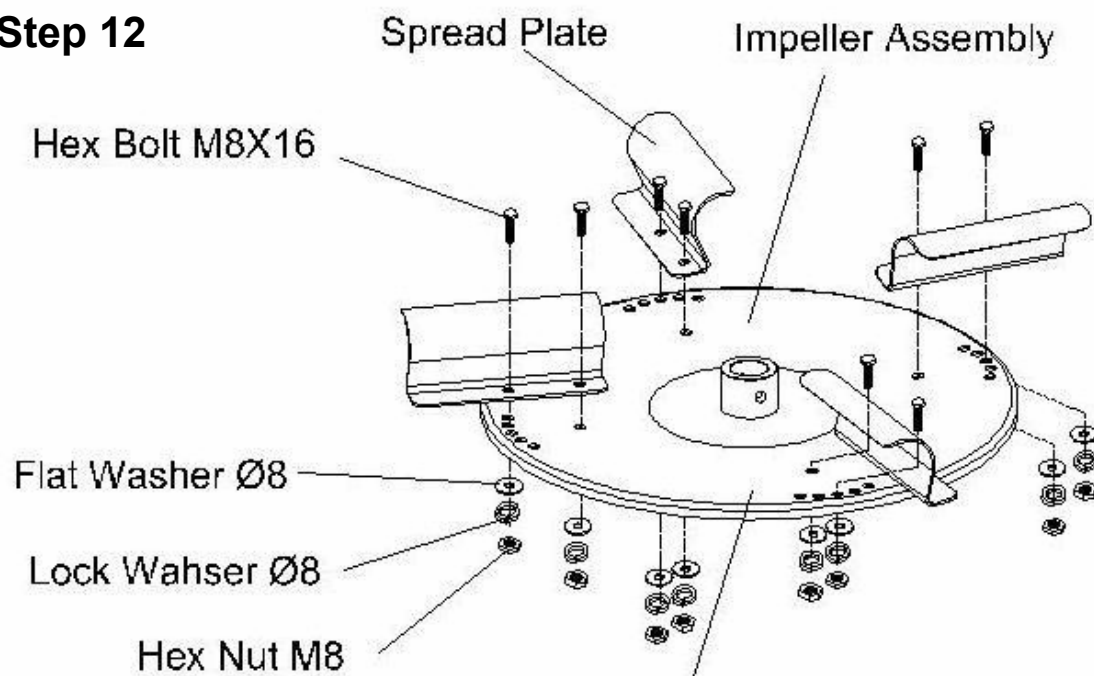
Step 10



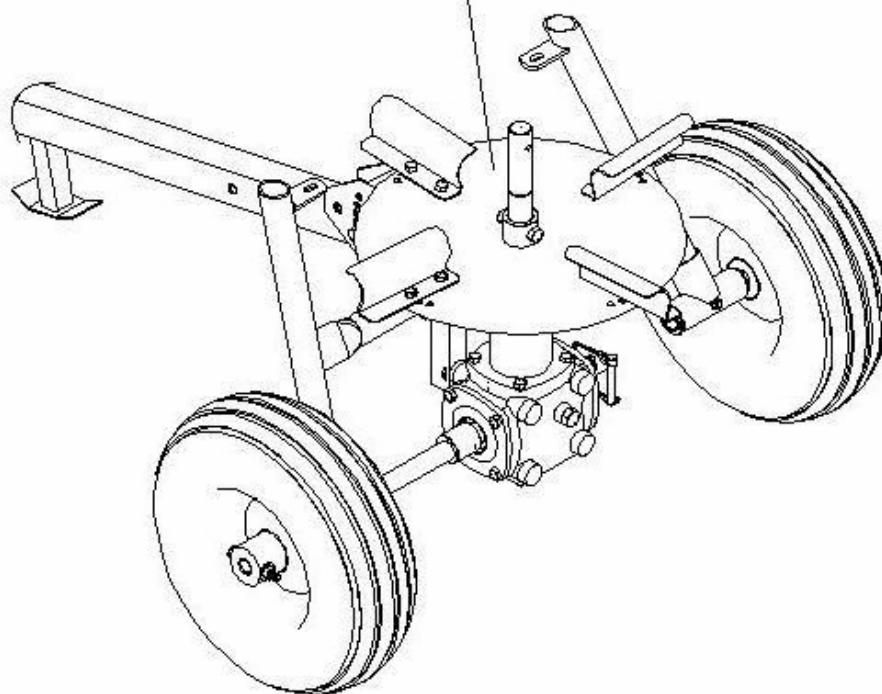
Step 11

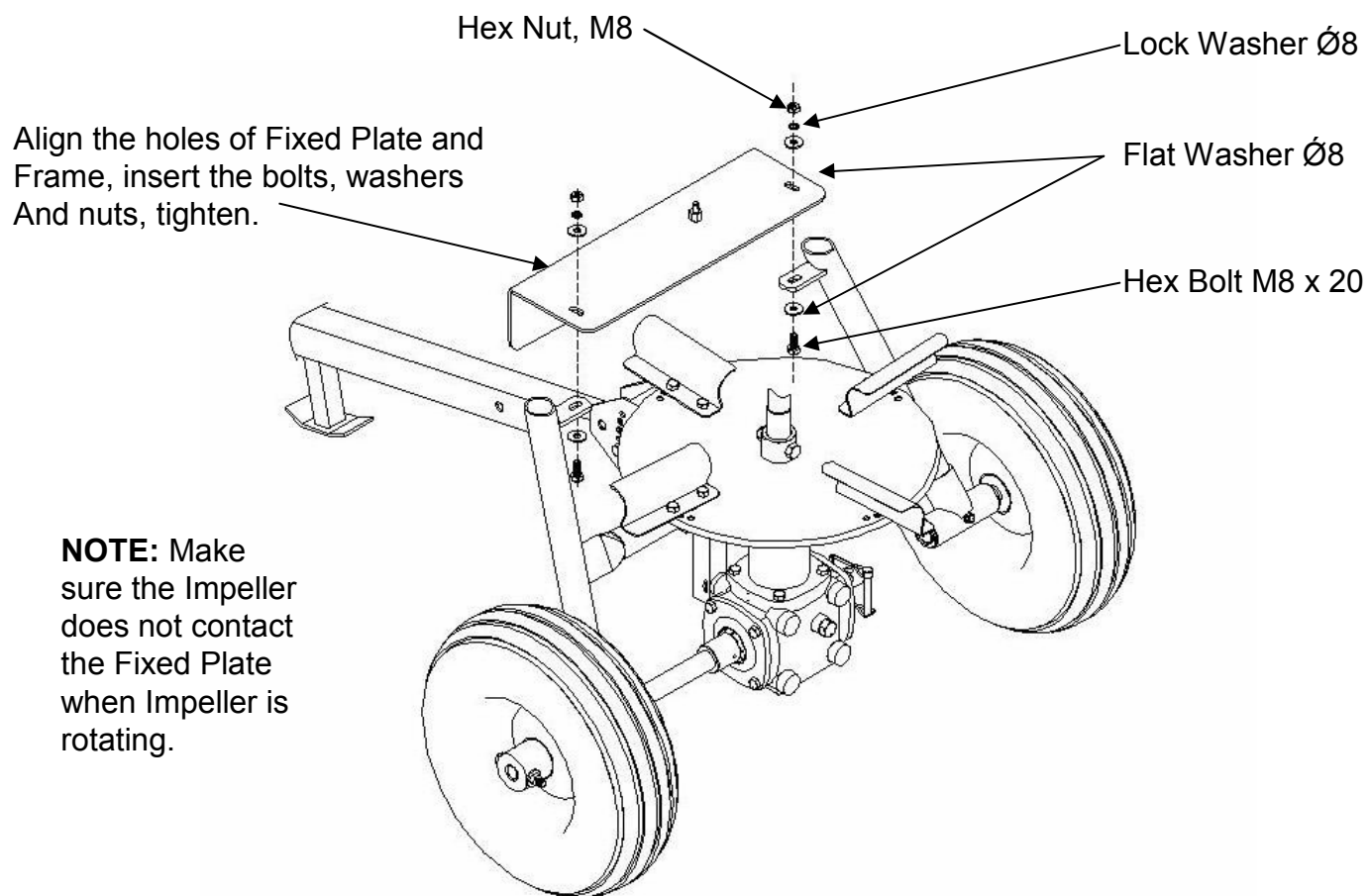


Step 12



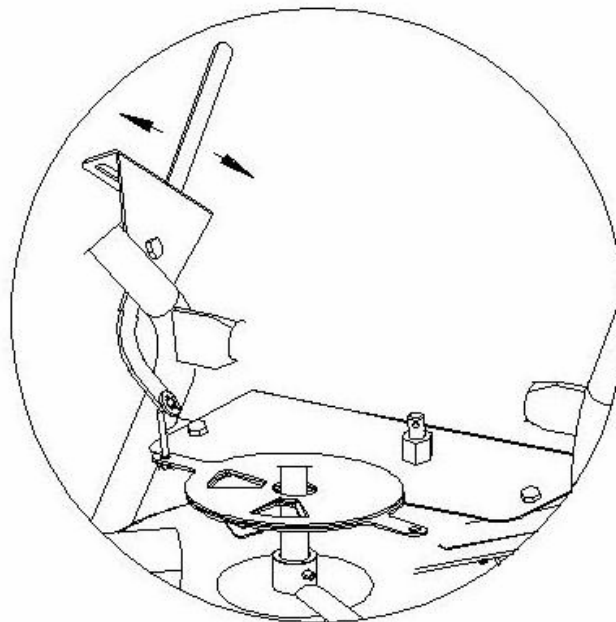
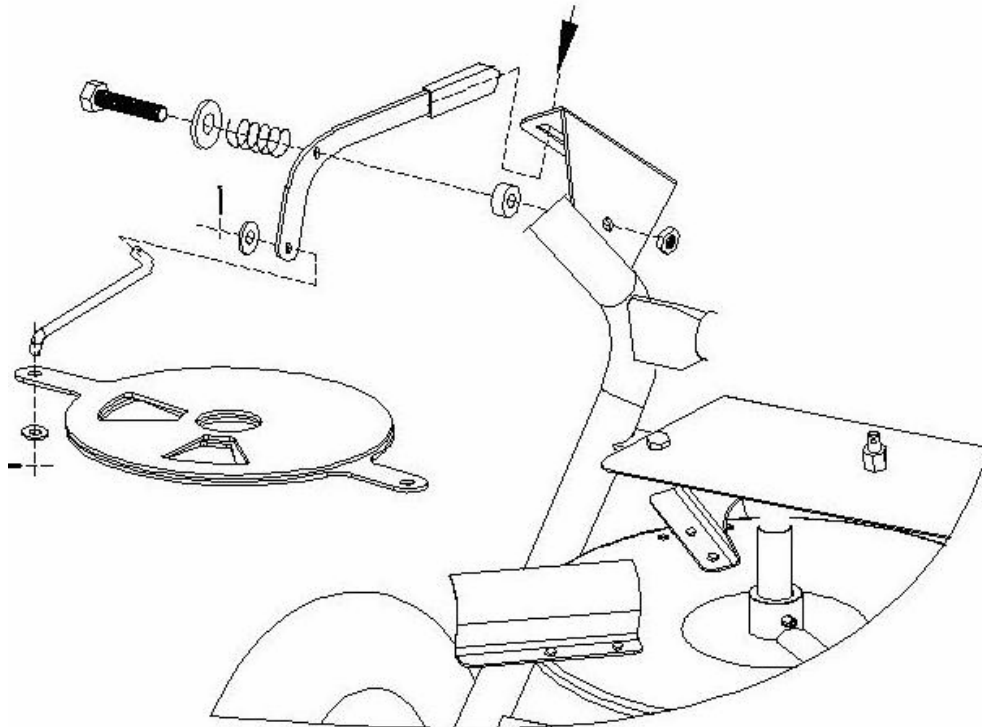
Assemble the Spread Plate to the Impeller accordingly. Then tighten the bolts.



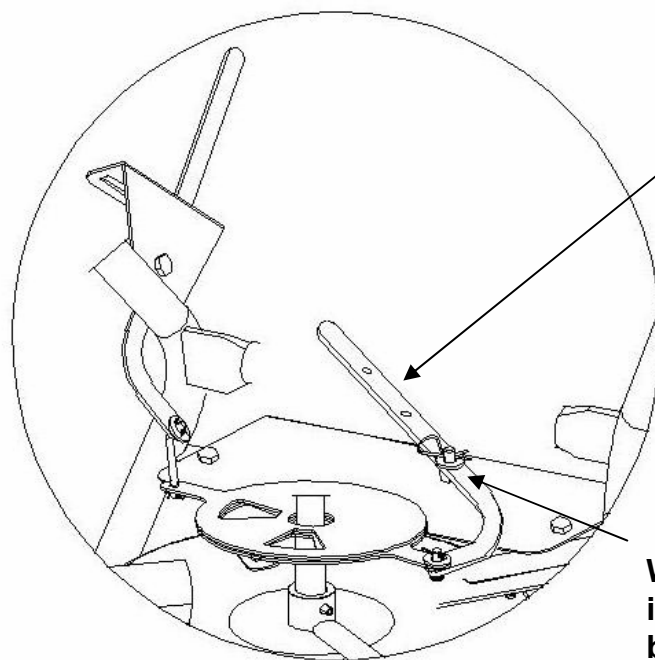
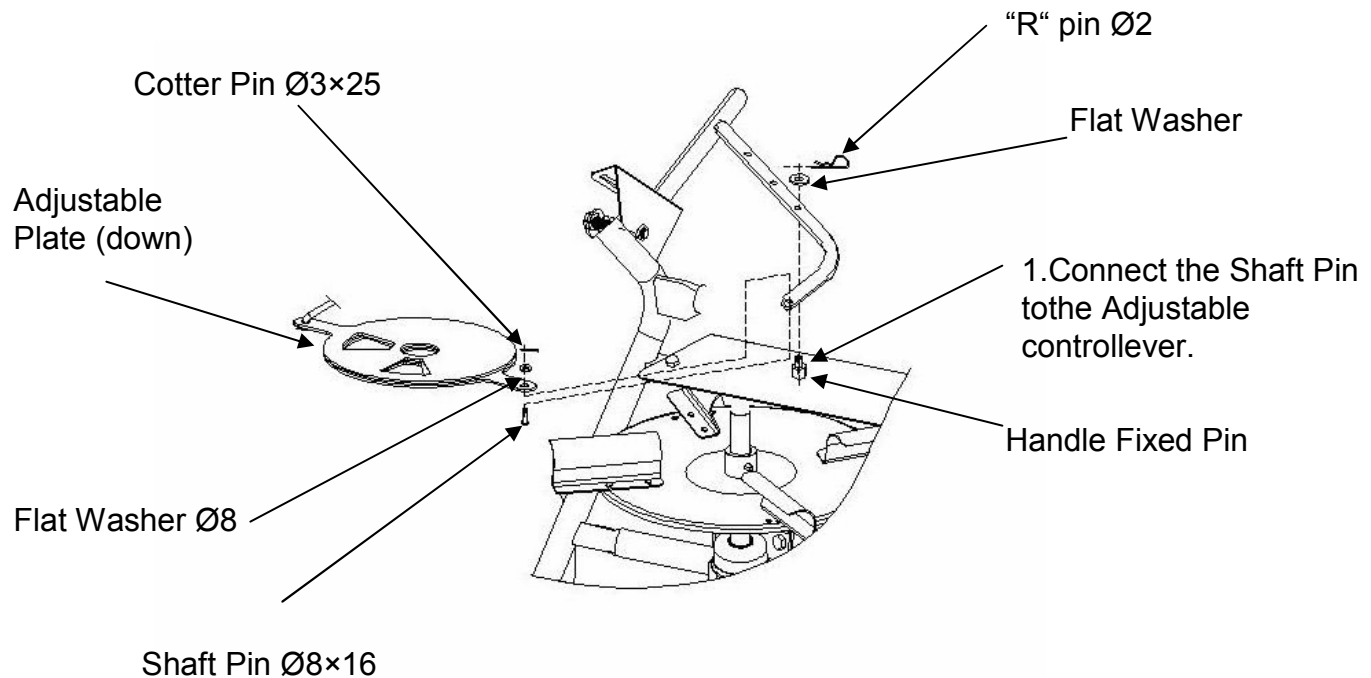


Step 14

1. Insert the adjustable control lever into The slotted bracket on the main frame as Indicated on the diagram. Install bolts, nuts, and washers, then tighten.



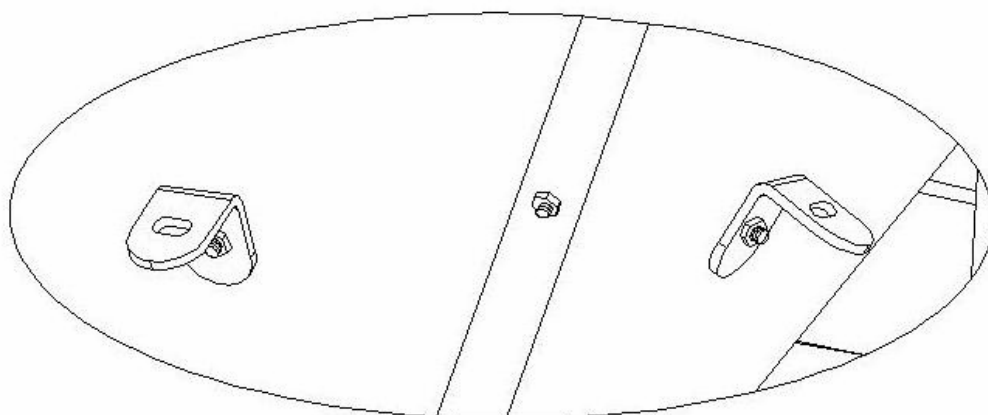
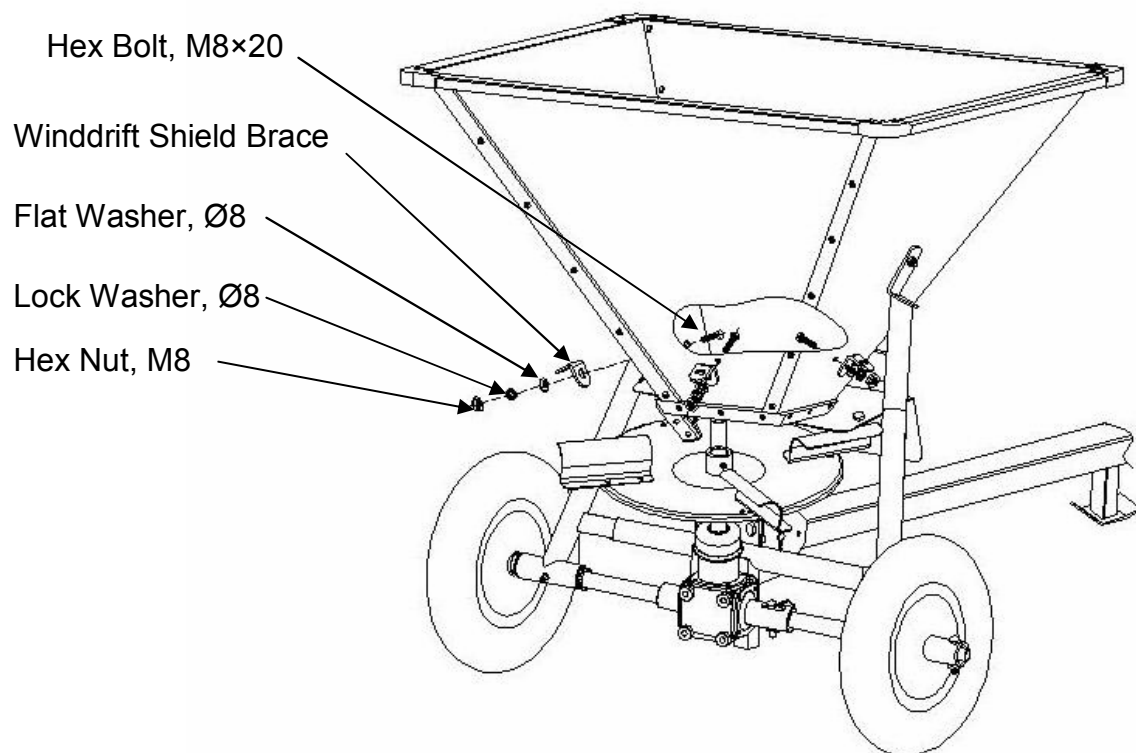
Step 15



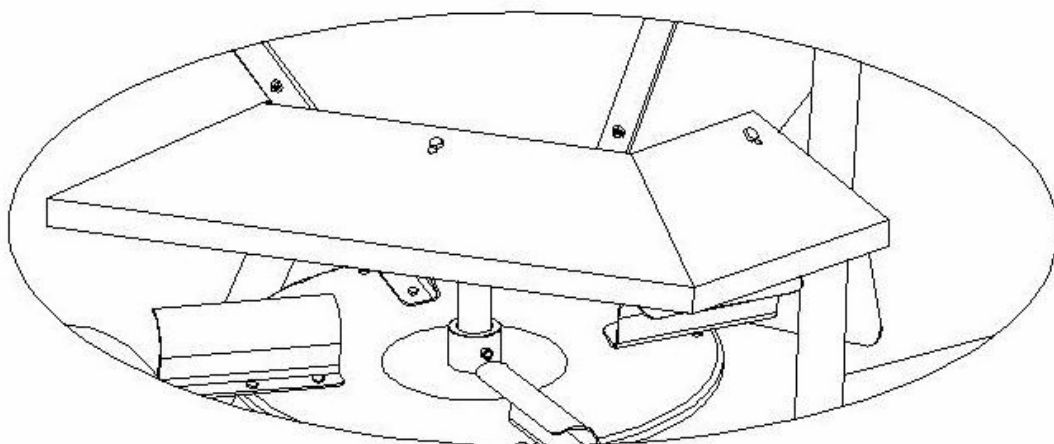
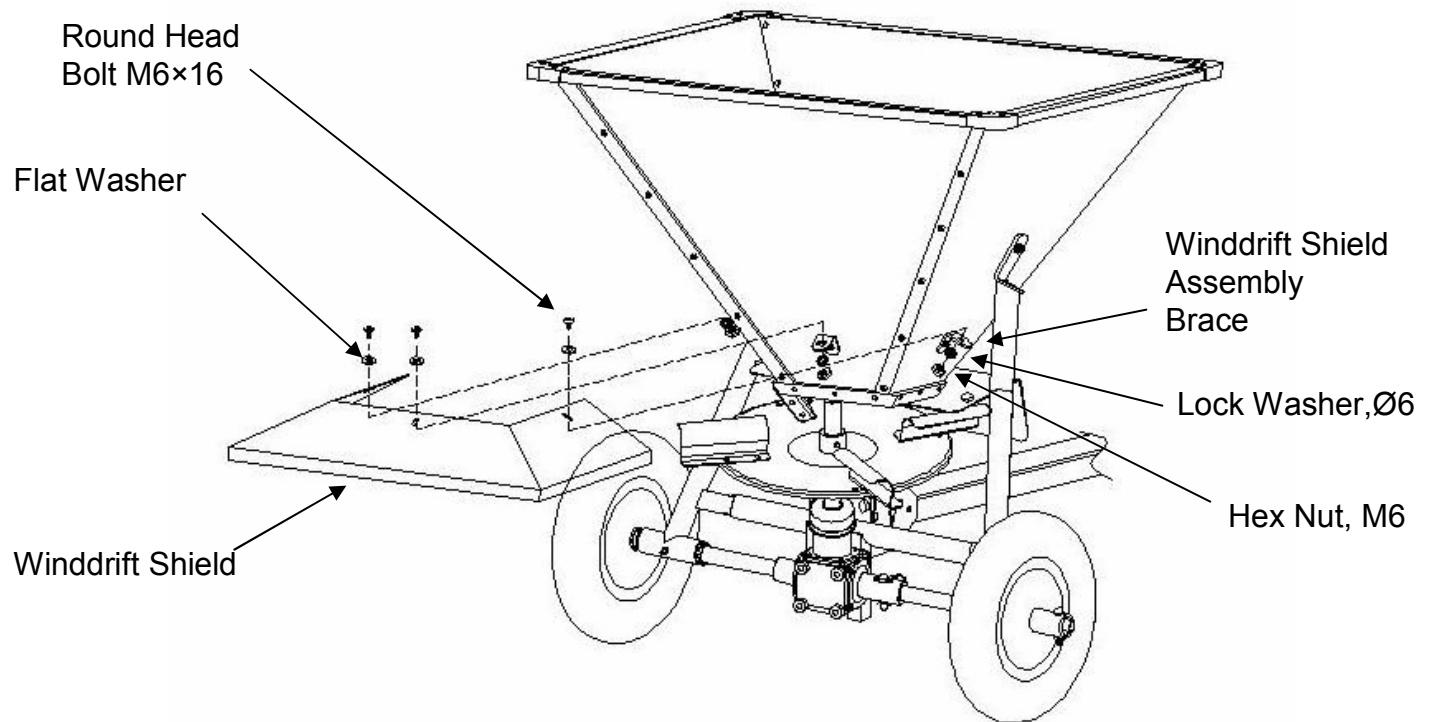
When the Adjustable lever is in this position/hole one opening on top plate will be used.

When the Adjustable lever is in this position/hole, both openings on top plate will be used.

Step 16



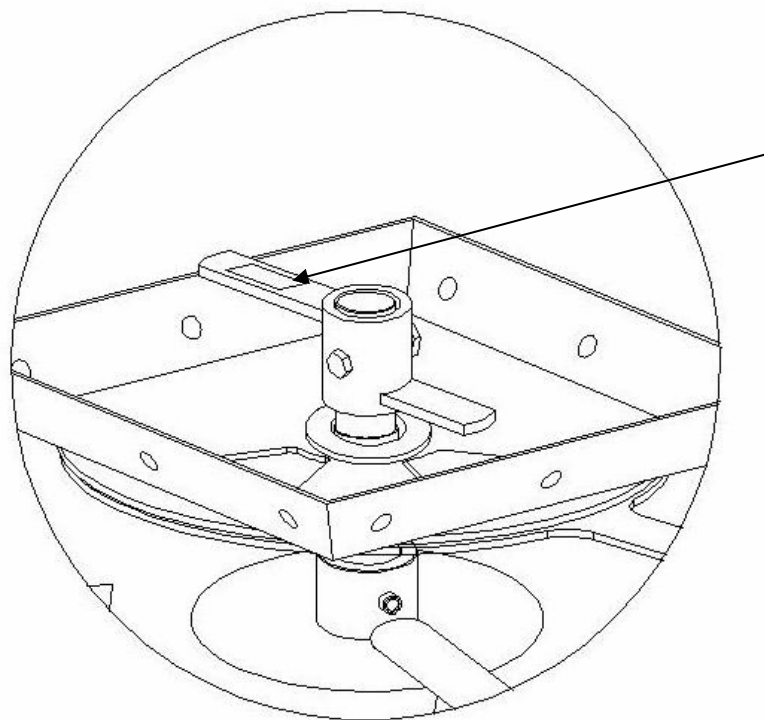
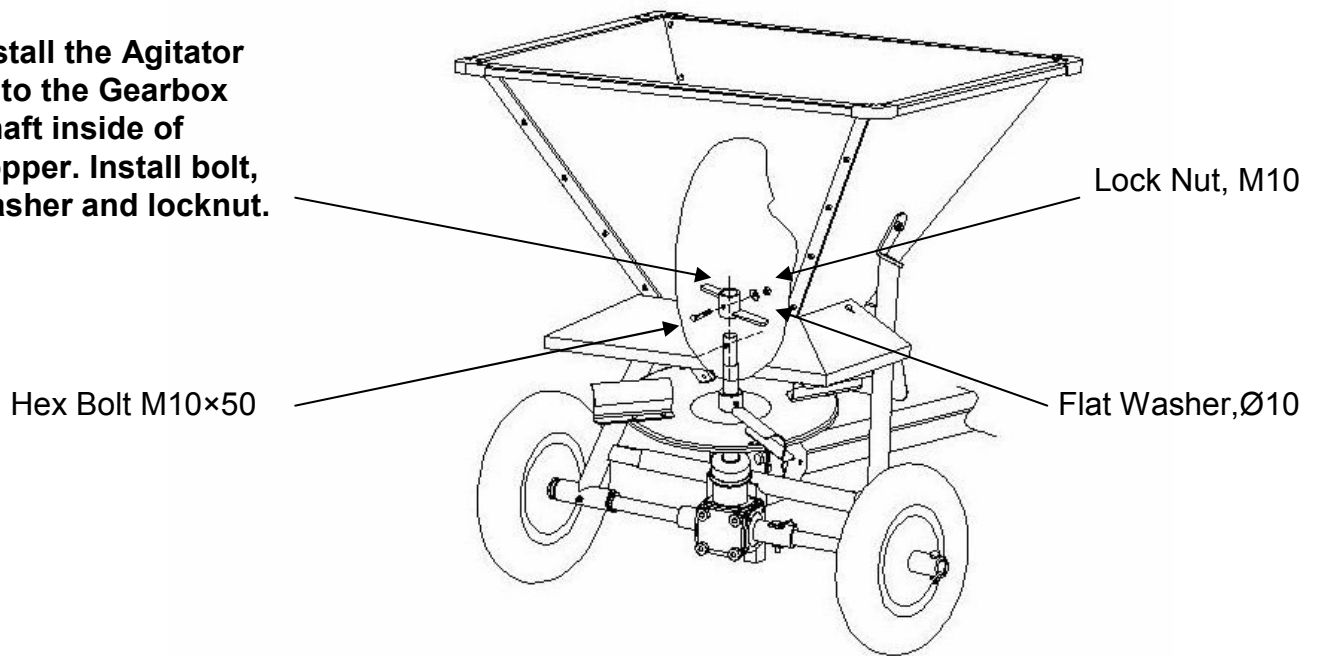
Step 17



Tighten all bolts as well as any bolts that have not been tightened.

Step 18

Install the Agitator onto the Gearbox Shaft inside of hopper. Install bolt, washer and locknut.

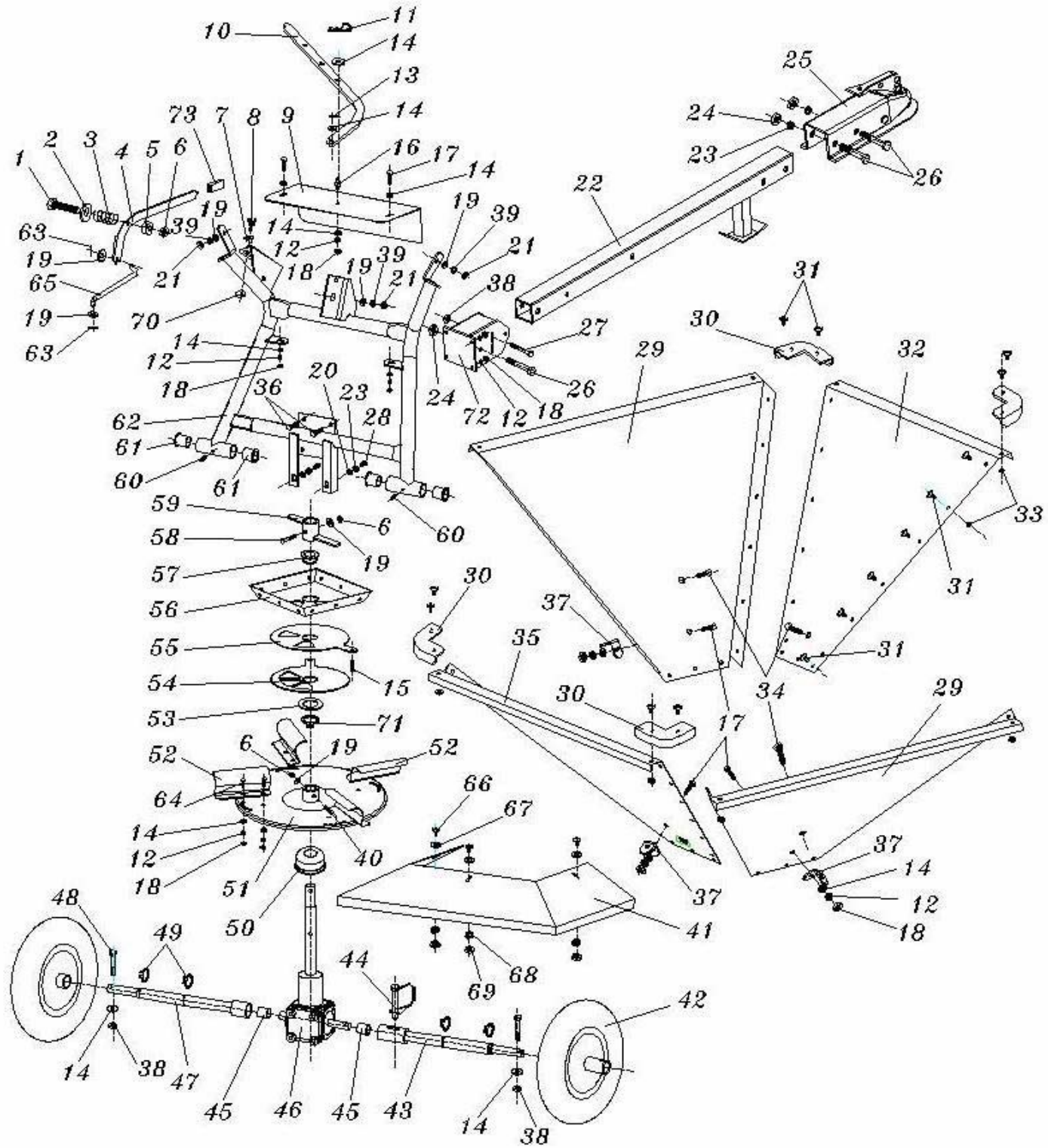


Note: Check Gearbox lubricant level at this point to insure the gearbox has sufficient lubrication.

Spread Chart

Material	Spread Width (In Feet)	Tractor Speed (MPH)	Pounds Per Acre (Approximate) At Control Lever Setting Indicated							
			0.5	1	2	3	4	5	6	7
Alfalfa & Clover	24	4	18	62	153					
		5	14	51	124					
		6	12	42	103					
		7.5	10	34	88					
Barley	26	4				94	117	139	196	
		5				76	94	112	157	
		6				63	78	92	130	
		7.5				50	62	74	105	
Bluegrass & Bermuda Grass	17	4			27	94				
		5			21.5	58.5				
		6			17.5	54				
		7.5			14	31				
Brome Grass	9.5	4	9	15.5	25					
		5	9	12	19.5					
		6	6.5	10	15					
		7.5	5	8	13					
Fescue & Ryegrass	17	4		14	44	104				
		5		12	35	77				
		6		10	29	64				
		7.5		8	23	51				
Lespedeza	30	4	6.5	14	29					
		5	4.5	12	23					
		6	4	10	19.5					
		7.5	3	8	15.5					
Oats	26	4				59	92	170		
		5				47	74	137		
		6				39	62	113		
		7.5				31	49	91		
Orchard Grass	11	4			18	27				
		5			14	22				
		6			12	18				
		7.5			9	14				
Rice	31	4				113	182	329		
		5				91	146	264		
		6				75	121	220		
		7.5				61	98	176		
Rye	31	4					112	176	242	295
		5					90	142	194	237
		6					74	117	161	196
		7.5					60	94	129	157
Sudan Grass	31	4			48	75	120			
		5			39	61	96			
		6			33	51	79			
		7.5			26	40	64			
Soybeans	38	4					105	165	195	221
		5					85	133	156	177
		6					71	111	130	147
		7.5					56	88	104	117
Timothy	15	4	18	62	153					
		5	14	51	124					
		6	12	42	103					
		7.5	10	34	82					
Wheat	31	4				91	144	196	257	
		5				73	116	157	207	
		6				60	96	130	172	
		7.5				48	77	104	138	

Parts Breakdown



Parts List

Ref. #	Description	Qty.	Part #	Ref. #	Description	Qty.	Part #
1	Hex Bolt M10x75	1	14780	38	Hex Nut M8	3	12221
2	Big Flat Washer Ø10	1	16081	39	Lock Washer Ø10	3	14774
3	Spring	1	16082	40	Hex Bolt M10x55	1	NB630
4	Adjustable Control Lever	1	16083	41	Winddrift Shield	1	16100
5	Washer Ø10	1	12101	42	Wheel	2	16101
6	Hex Lock Nut M10	1	12783	43	Driven Axle Shaft Assembly	1	16102
7	Cursor	1	16084	44	Safety Pin	1	16103
8	Wing Nut Assembly	1	16085	45	Axle Bushing	2	16104
9	Fixed Plate	1	16086	46	Gear Box Assembly	1	16105
10	Adjustable Handle(low)	1	16087	47	Non-Driven Axle Shaft Assembly	1	16106
11	R Pin Ø2	1	16088	48	Hex Bolt M8x50	2	NB721
12	Lock Washer Ø8	18	NB711	49	Lock Retaining Ring Cap Ø25	4	16107
13	Cotter Pin Ø3x25	1	16089	50	Cap	1	16108
14	Flat Washer Ø8	20	13822	51	Impeller Assembly	1	16109
15	Shaft Pin	1	16090	52	Spread Plate	4	16110
16	Handle Fixed Pin	1	16091	53	Flat Washer Ø10	1	12101
17	Hex Bolt M8x20	5	NB719	54	Adjustable Plate(bottom)	1	16111
18	Hex Nut M8	18	NB718	55	Adjustable Plate(top)	1	16112
19	Flat Washer Ø10	7	12101	56	Hopper Bottom Plate	1	16113
20	Flat Washer Ø12	2	14784	57	Axle Bushing	1	16114
21	Hex Nut M10	3	NB729	58	Hex Bolt M10x50	1	NB727
22	Tow Bar	1	16092	59	Agitator	1	16115
23	Lock Washer Ø12	4	14785	60	Oil Cup	2	16116
24	Lock Nut M12	3	13671	61	Bearing	4	16117
25	Coupler	1	16093	62	Frame Assembly	1	16118
26	Hex Bolt M12x75	3	13767	63	Cotter Pin Ø2x20	2	16124
27	Hex Bolt M8x70	1	NB726	64	Hex Bolt M8x16	8	11993
28	Hex Bolt M12x20	2	16094	65	Connecting Shaft	1	16119
29	Hopper Side Panel	2	16095	66	Bolt M6x16	3	14792
30	Corner Cap(front)	4	16096	67	Flat Washer Ø6	3	12121
31	Bolt M6x12	44	14792	68	Lock Washer Ø6	3	12125
32	Hopper Front Panel	1	16413	69	Hex Nut M6	3	NB725
33	Flange Hex Nut M6	44	NB600	70	Closing Piece	1	16120
34	Hex Bolt M10x25	3	10233	71	Lock Retaining Ring Cap Ø10	1	16121
35	Hopper Rear Panel	1	16098	72	Adjustable Tongue Mount	1	16122
36	Hex Bolt M8x25	4	NB723	73	Handle Grip	1	16123
37	Winddrift Shield Brace	3	16099				

NOTES

[illegible]



SWISHER HISTORY

Back before electricity came to rural Missouri Max Swisher was producing lawn mowers from his mother's chicken house. Max never liked to mow grass. He installed a gearbox on his family's lawn mower creating a self-propelled unit. By tying one end of a rope to the mower and the other end to a tree in the center of the yard the mower circled the tree, shortening the rope and guiding the mower in concentric circles. Max enjoyed relaxing under a shade tree while his invention did all the work.

Max had designed his first self-propelled rotary lawn mower to do his dirty work for him. Neighbors noticed his new invention and began asking him to make more. Today, over 60 years later, Swisher Mower and Machine Company, Inc. is still producing innovative lawn and garden and ATV/UTV equipment designed to give us all more "relaxing in the shade" time.

Swisher products have been featured nationally on television programs such as *Regis and Kathie Lee* and seen in publications like ATV Magazine, Country Journal, Popular Mechanics Magazine and others. In January 2000 Popular Mechanics Magazine named Max's zero turning radius riding mower one of the 20th century's top household inventions.

Swisher offers value and function in its products to meet your grounds maintenance needs.

CELEBRATING OVER 60 YEARS OF INNOVATION

1945 - 2008





MANUFACTURING QUALITY LAWN CARE EQUIPMENT SINCE 1945

ATV & LAWN ACCESSORIES

Owner's Manual

SP-350



IMPORTANT
Read and follow
all Safety
Precautions and
Instructions
Before Operating
this Equipment.

WHEN ORDERING PARTS, PLEASE HAVE THE
FOLLOWING INFORMATION AVAILABLE:

- * PRODUCT - _____
- * SERIAL NUMBER - _____
- * MODEL NUMBER - _____
- TYPE - _____
- * PART NUMBER WITH PAINT CODE
- PART DESCRIPTION

TELEPHONE -1-800-222-8183
FAX -1-660-747-8650

SWISHER MOWER & MACHINE CO. INC.
1602 CORPORATE DRIVE
P.O. BOX 67
WARRENSBURG, MO 64093

www.swisherinc.com